

B1
amended.
a magnetic armature wedge structure including a molded body having a magnetic core and a resin part encapsulating said magnetic core, said magnetic core disposed to extend along substantially an entire length thereof.

B2
4. (Amended) A magnetic assembly as in claim 1, wherein said magnetic core encapsulated in said resin part of said magnetic armature wedge structure comprises a pair of oppositely wound wires attached at respective ends.

5. (Amended) A magnetic assembly as in claim 1, wherein said magnetic core encapsulated in said resin part of said magnetic armature wedge structure comprises a plurality of sticks of magnetic material, each said stick being oriented so that a longitudinal axis thereof is generally transverse to each of said length dimension and said thickness dimension of said wedge.

B3
8. (Amended) A magnetic assembly as in claim 1, wherein said magnetic core encapsulated in said resin part of said magnetic armature wedge structure comprises a plurality of laminated plates of magnetic material, each said plate being oriented in a direction generally transverse to said length dimension.

B4
10. (Amended) A magnetic assembly as in claim 1, wherein said magnetic core encapsulated in said resin part of said magnetic armature wedge structure comprises an elongated centrally disposed magnetic core made from mixing resin and ferromagnetic particles.

Kindly add the following new claims:

B⁵
--20. (New) A magnetic assembly for being received in an armature slot for retaining armature coil components therewithin, said assembly having a longitudinal dimension generally parallel to an axis of said armature slot and a thickness dimension in a direction generally perpendicular to said longitudinal dimension and aligned in a depth direction said armature slot, said magnetic assembly comprising:

a magnetic armature wedge structure including a molded body of a resin material having a magnetic material embedded therewithin, said magnetic material being embedded in said molded body so as to be disposed along substantially an entire length thereof, and further comprising a magnetic wedge slide adjacent said magnetic armature wedge structure, between said magnetic armature wedge structure and said armature coil components, said magnetic wedge slide being formed from resin having ferromagnetic particles distributed therethrough.

21. (New) A magnetic assembly as in claim 20, wherein a volumetric mixing ratio of the magnetic wedge slide, defined as

$$\eta_{mag} = \frac{V_{mag}}{V_{mag} + V_{resin}}$$

where V_{mag} is the volume of magnetic particles and V_{resin} is the resin volume, is in a range of about 20 - 80% .

FIG. 2
22. (New) A magnetic assembly as in claim 20, wherein said magnetic material embedded in said molded body of said magnetic armature wedge structure comprises a pair of oppositely wound wires attached at respective ends.

FIG. 3
23. (Amended) A magnetic assembly as in claim 20, wherein said magnetic material embedded in said molded body of said magnetic armature wedge structure comprises a plurality of sticks of magnetic material, each said stick being oriented so

that a longitudinal axis thereof is generally transverse to each of said length dimension and said thickness dimension of said wedge.

B5
cont.
N-26C 24. (New) A magnetic assembly as in claim 23, wherein each said stick is comprised of silicon/iron for increasing slot leakage reactance.

N-612 25. (New) A magnetic assembly as in claim 23, wherein each said stick is coated with a non-metallic material prior to being embedded in the molded body.

N-612 26. (New) A magnetic assembly as in claim 20, wherein said magnetic material embedded in said molded body of said magnetic armature wedge structure comprises a plurality of laminated plates of magnetic material, each said plate being oriented in a direction generally transverse to said length dimension.

N-612 27. (New) A magnetic assembly as in claim 26, wherein each said laminated plate is formed from silicon/iron for increasing slot leakage reactance.

28. (New) A magnetic assembly as in claim 20, wherein said magnetic material embedded in said molded body of said magnetic armature wedge structure comprises a magnetic core made from mixing resin and ferromagnetic particles that is encapsulated in resin.

29. (New) A magnetic assembly as in claim 28, wherein said magnetic core has a generally circular cross-sectional shape.

30. (New) A magnetic assembly for being received in an armature slot for retaining armature coil components therewithin, said assembly having a longitudinal dimension generally parallel to an axis of said armature slot and a thickness dimension in a direction of generally perpendicular to said longitudinal dimension and aligned in a depth direction said armature slot, said magnetic assembly comprising:

B5
enclosed.
a magnetic armature wedge structure including a molded body having a magnetic core and a resin part encapsulating said magnetic core, said magnetic core disposed to extend along substantially an entire length thereof, wherein said magnetic core encapsulated in said molded body of said magnetic armature wedge structure comprises an elongated magnetic core made from mixing resin and ferromagnetic particles, and wherein said magnetic core has a generally circular cross-sectional shape.--

REMARKS

Reconsideration and allowance in view of the foregoing amendment and the following remarks are respectfully requested.

Claims 1-11 and 20-30 are now pending. Claims 4-9 have been withdrawn from consideration as directed to non-elected species. New claims 22-27 are also directed to non-elected species. However, generic claims remain. Therefore, in the event one or more generic claims is allowed, reconsideration and withdrawal of the restriction requirement are requested.

Applicant notes with appreciation the Examiner's indication that claim 3 contains allowable subject matter. Original claim 3 has been preserved as new dependent claim 21 and is submitted to be allowable. Claim 3 also remains allowable.

Original claims 1-3 [sic] and 10-11 were rejected under 35 USC 102(b) as being anticipated by Myers. As noted in the Official Action Summary and on page 4 of the Official Action, claim 3 has been objected to only as depending from a rejected base claim and would be allowable if rewritten in independent form. The undersigned notes that during a teleconference with the Examiner following issuance of the Action, the Examiner confirmed the indicated allowability of claim 3. Claim 11 was rejected under 35 USC 103(a) as being unpatentable over Myers. Applicant respectfully traverses these rejections.